

STIC-Biotech/ChemLib

113975

From: Davis, Minh-Tam
Sent: Tuesday, February 10, 2004 1:18 PM
To: STIC-Biotech/ChemLib
Subject: FW: Rush search request for 10/023182

Please add the following search:

Please search SEQ ID NO: 1, 4, 5, 6 against the parent cases 09/751798, 08/937263, 08/725182 to determine priority Date.

Thank you.

MINH TAM DAVIS
ART UNIT 1642,
RESEM ROOM 3A24, MB 3C18
272-0830

-----Original Message-----

From: Chan, Christina
Sent: Tuesday, February 10, 2004 12:58 PM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 10/023182

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Davis, Minh-Tam
Sent: Tuesday, February 10, 2004 12:56 PM
To: Chan, Christina
Subject: Rush search request for 10/023182

Please search in commercial database, issued patent files, PGPUB and interference:

- 1) SEQ ID NO:1.
- 2) The amino acid sequence encoded by SEQ ID NO:1, as shown in the sequence listing.
- 3) SEQ ID NO:4, 5, 6 with and without size limitation to the size of the corresponding sequence.

Thank you.

MINH TAM DAVIS
ART UNIT 1642,
RESEM ROOM 3A24, MB 3C18
272-0830

Searcher: Jan
Phone: 22504
Location: _____
Date Picked Up: 2/10
Date Completed: 2/10
Searcher Prep/Review: _____
Clerical: 15
Online time: 20

TYPE OF SEARCH:
NA Sequences: ☒
AA Sequences: ☒
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: ☒
WWW/Internet: _____
Other (specify): _____



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 113975

TO: Minh-Tam Davis
Location: Rem 3a24 / 3c18
Wednesday, February 11, 2004
Art Unit: 1642
Phone: 272-0830
Serial Number: 10 / 023182

From: Jan Delaval
Location: Biotech-Chem Library
Rem 1A51
Phone: 272-2504
jan.delaval@uspto.gov

Search Notes

Tam -

Serial number 09 / 7¹1798 = US patent 6525177.

Serial number 08 / 937263 = US patent 6274145.

Serial number 08 / 725182 = US patent 5804381.
There are no proteins available for this patent.

Jan

STIC-Biotech/ChemLib

114183

From: Davis, Minh-Tam
Sent: Wednesday, February 11, 2004 5:03 PM
To: STIC-Biotech/ChemLib
Subject: FW: Rush search request for 10/023182

Please add the following extra search:

Please search in commercial database, issued patent files, PGPUB and interference:

1) Oligomer search for SEQ ID NO:1, with size limitation not larger than 100 nucleotides.

Thank you.

-----Original Message-----

From: Chan, Christina
Sent: Tuesday, February 10, 2004 12:58 PM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 10/023182

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Davis, Minh-Tam
Sent: Tuesday, February 10, 2004 12:56 PM
To: Chan, Christina
Subject: Rush search request for 10/023182

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1) SEQ ID NO:1.

2) The amino acid sequence encoded by SEQ ID NO:1, as shown in the sequence listing.

3) SEQ ID NO:4, 5,6 with and without size limitation to the size of the corresponding sequence.

Thank you.

MINH TAM DAVIS

ART UNIT 1642,

RESEM ROOM 3A24, MB 3C18

272-0830

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: _____
Date Completed: _____
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:

NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)

STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

RECEIVED
FEB 12 2004
STIC/BIOTECH DIVISION
(STIC)

Davis, Minh-Tam

From: Davis, Minh-Tam
Sent: Wednesday, February 11, 2004 5:03 PM
To: STIC-Biotech/ChemLib
Subject: FW: Rush search request for 10/023182

Today Port 22523
Please add the following extra search:

Please search in commercial database, issued patent files, PGPUB and interference:

1) Oligomer search for SEQ ID NO:1, with size limitation not larger than 100 nucleotides.

Thank you.

-----Original Message-----

From: Chan, Christina
Sent: Tuesday, February 10, 2004 12:58 PM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 10/023182

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644

(571)-272-0841

Remsen, 3E89

-----Original Message-----

From: Davis, Minh-Tam
Sent: Tuesday, February 10, 2004 12:56 PM
To: Chan, Christina
Subject: Rush search request for 10/023182

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1) SEQ ID NO:1.

2) The amino acid sequence encoded by SEQ ID NO:1, as shown in the sequence listing.

3) SEQ ID NO:4, 5,6 with and without size limitation to the size of the corresponding sequence.

Thank you.

MINH TAM DAVIS

ART UNIT 1642,

RESEM ROOM 3A24, MB 3C18

272-0830

Davis, Minh-Tam

From: Davis, Minh-Tam
Sent: Wednesday, February 11, 2004 5:03 PM
To: STIC-Biotech/ChemLib
Subject: FW: Rush search request for 10/023182

Please add the following extra search:

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1) Oligomer search for SEQ ID NO:1, with size limitation not larger than 100 nucleotides.

Thank you.

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From: Chan, Christina
Sent: Tuesday, February 10, 2004 12:58 PM
To: Davis, Minh-Tam; STIC-Biotech/ChemLib
Subject: RE: Rush search request for 10/023182

Please rush. Thanks Chris

Chris Chan

TC 1600 New Hire Training Coordinator and SPE 1644

(571)-272-0841

Remsen, 3E89

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From: Davis, Minh-Tam
Sent: Tuesday, February 10, 2004 12:56 PM
To: Chan, Christina
Subject: Rush search request for 10/023182

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1) SEQ ID NO:1.

2) The amino acid sequence encoded by SEQ ID NO:1, as shown in the sequence listing.

3) SEQ ID NO:4, 5,6 with and without size limitation to the size of the corresponding sequence.

Thank you.

MINH TAM DAVIS

ART UNIT 1642,

RESEM ROOM 3A24, MB 3C18

272-0830

[illegible]

2. US-10-023-182-1 (1-752)
US-08-937-2638-2 Sequence 2, Application US/08937263B

Sequence 2, Application US/08937263B
Patent No. 6274145
GENERAL INFORMATION:
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Chue, Ali; Old, Lloyd J.; Jager, Eike;
APPLICANT: Alexander, Knuth; Drijfhout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN,
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA

```

ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B
FILING DATE: September 15, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Sinn, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 31 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Initial Score = 19 Optimized Score = 23 Significance = -0.57
Residue Identity = 74% Matches = 23 Mismatches = 8
Gaps = 0 Conservative Substitutions = 0

```

3. US-10-023-182-1 (1-752)
US-08-937-263B-3 Sequence 3, Application US/08937263B

Sequence 3, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali, Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Van W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN,
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B

FILED DATE: September 15, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Sinn, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

Initial Score = 13 Optimized Score = 17 Significance = -0.58
Residue Identity = 59% Matches = 22 Mismatches = 8
Gaps = 7 Conservative Substitutions = 0

250 260 270 280 290 300 310
CATGGCGGGCGGCTTCAAGGCTGAATGATGCTGCAGATGCGGGCCAGGGCCGCGAGAGCCGCTGCTT
320 330 340 350 360 370 380
GAGTCTACCTGCGCATGCTTTCGGGACACCCCATGAGAGCAGAGC-TGGC-CCGACAGAGGCTGCGCCAGG
CACACA--AGCTTGCTTAGCGGCTCTG--CCCTG
X 10 20 30 X
390 400 410 420 430 440 450
ATGCCCCACCGGCTTCCCGTGCAGGGGTGCTTCTGAAGAGATTCACTGTGTCGGGCAACATACGACTATCC
460 470 480
GACTGACTGCTGACAGCCAC

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O | O Intelligence
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 10-023182-1b.res made by jdelaval on Wed 11 Feb 104 7:26:27-EST.

Query sequence being compared: US-10-023-182-1 (1-752)
Number of sequences searched: 3
Number of scores above cutoff: 3

Results of the initial comparison of US-10-023-182-1 (1-752) with:
File: 6525177.res

100-
N -
U 50-
M -
B -
E -
R -
O 10-
F -
S -
E 5-
U -
N -
C -
E -
S 0-
SCORE 0 84 167 251 334 418 501 585 668 752
STDEV 0 1 1 1 1 1 1 1 1 1

PARAMETERS

Similarity matrix Unitary K-tuple 4
Mismatch penalty 1 Joining penalty 30
Gap penalty 1.00 Window size 9
Gap size penalty 0.33
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean Median Standard Deviation
.261 14 424.94
Times: CPU
00:00:00.00 Total Elapsed
00:00:00.00

Number of residues: 815
Number of sequences searched: 3
Number of scores above cutoff: 3

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Length	Init. Opt.	Score	Sig.	Frame
---------------	-------------	--------	------------	-------	------	-------

1. US-09-751-798-1 Sequence 1, Application US 752 752 752 1.16 0
The list of other best scores is:

Sequence Name	Description	Length	Init. Opt.	Score	Sig.	Frame
2. US-09-751-798-2	Sequence 2, Application US	31	19	23	-0.57	0
3. US-09-751-798-3	Sequence 3, Application US	32	13	17	-0.58	0

1. US-10-023-182-1 (1-752)
US-09-751-798-1 Sequence 1, Application US/09751798

Sequence 1, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:
APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751.798

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062.422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062.422

FILING DATE:

APPLICATION NUMBER: 09/062.422

FILING DATE:

APPLICATION NUMBER: 09/062.422

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FILING DATE:

APPLICATION NUMBER: 09/062.422

FILING DATE:

APPLICATION NUMBER: 09/062.422

FILING DATE:

APPLICATION NUMBER: 09/062.422

COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 652517man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5466.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 32 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear


Initial Score = 13 Optimized Score = 17 Significance = -0.58
Residue Identity = 59% Matches = 22 Mismatches = 8
Gaps = 7 Conservative Substitutions = 0

250 260 270 280 290 300 310
CATGGCGGCGCGCTTCAGGGGTGAATGATGCTGCAGATGCGGGGCCAGGGGCCGGAGAGAGCCGCTGCTT
320 330 340 350 360 370 380
GAGTTTACCTGCGCCATGCTTCGCGACACCCATGAGAGAGAGC-TGGC-CCGACGAGGCTGCCCCAGG
CACACA---AAGCTTGCTTAGCGGCTCTG--CCCTG
X 10 20 30 X
390 400 410 420 430 440 450
ATGCCCCACCGCTTCCGTCGACGAGGGGTGCTTCTGAAGAGATTCACTGTGTCGGGACACATACGACTATCC
460 470 480
GACTGACTGCTGCAGACCAAC

Wed Feb 11 07:27:31 2004

10-023182-1c.res

Page 1



IntelliGenetics

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 10-023182-1c.res made by jdelaval on wed 11 Feb 104 7:27:07-PST

```
Query sequence being compared:US-10-023-182-1 (1-752)
Number of sequences searched: 1
Number of scores above cutoff: 1
```

290	300	310	320	330	340	350	360
GGGCGAAGGGGGCCCGAAGAGCCGCCCTGCTTAGGTTCTACCTCCGCATGCTCTTTTGCGACACCCATGAAAGCAG							
GGGCGAAGGGGGCCCGAAGAGCCGCCCTGCTTAGGTTCTACCTCCGCATGCTCTTTTGCGACACCCATGAAAGCAG							
GGGCGAAGGGGGCCCGAAGAGCCGCCCTGCTTAGGTTCTACCTCCGCATGCTCTTTTGCGACACCCATGAAAGCAG							
290	300	310	320	330	340	350	360
AGCTGGGCGCGAGAGAGCTGGGCGCAGAGATGGGCGCCACCGCGCTTCCCGTGGCGAGGGGGGCTTGAAGAGTTCA							
AGCTGGGCGCGAGAGAGCTGGGCGCAGAGATGGGCGCCACCGCGCTTCCCGTGGCGAGGGGGGCTTGAAGAGTTCA							
AGCTGGGCGCGAGAGAGCTGGGCGCAGAGATGGGCGCCACCGCGCTTCCCGTGGCGAGGGGGGCTTGAAGAGTTCA							
370	380	390	400	410	420	430	
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
440	450	460	470	480	490	500	
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
CTGTGTCCGCGAACAATCTAGACTATCCGAGATCGTGGCGAGACACCGCGCAACTGAGCTCTCCATGAGCT							
510	520	530	540	550	560	570	
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
510	520	530	540	550	560	570	
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
CCGTGTCCGAGAGAGCTTCCCGTGGATGGATGAGACAGAGAGTGTTCGCCCGAGTTTGGCGACAGCTTC							
580	590	600	610	620	630	640	
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
580	590	600	610	620	630	640	
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
CCCTCAGGGGAGAGGCGCTTAGGCCAGCGCTGAGCGCCCTTCCTTAGGTATGCTTCCTCCCTCAGGAAATGTC							
650	660	670	680	690	700	710	720
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
650	660	670	680	690	700	710	720
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
CCGAGCAGAGTGGCCAGTTCATATTGGGGGGGCGCTGATTGTTTGGCGTGGAGAGGAGCGCGCTTAACATGTTTGT							
730	740	750	X				
TTCTGTAGAAATTAATACTGAGCTACGAAAA							
TTCTGTAGAAATTAATACTGAGCTACGAAAA							
TTCTGTAGAAATTAATACTGAGCTACGAAAA							
730	740	750	X				
TTCTGTAGAAATTAATACTGAGCTACGAAAA							
TTCTGTAGAAATTAATACTGAGCTACGAAAA							
TTCTGTAGAAATTAATACTGAGCTACGAAAA							

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> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-10-023-182-4.res made by jdelaval on Wed 11 Feb 104 7:16:50 PST.

Query sequence being compared: US-10-023-182-4 (1-11)
Number of sequences searched: 5
Number of scores above cutoff: 5

Results of the initial comparison of US-10-023-182-4 (1-11) with:
File: 6274145.pep

100-
N -
U -50-
M -
B -
E -
R -
O -
F 10-
S -
Q -5-
U -
N -
C -
E -
S -
S -
SCORE 0
STDV -3

PARAMETERS

Similarity matrix Unitary
Mismatch penalty 1.00
Gap penalty 0.05
Gap size penalty 0
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 8 Median 8 Standard Deviation 2.28
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00

Number of residues: 215
Number of sequences searched: 5
Number of scores above cutoff: 5

The scores below are sorted by initial score.
Significance is calculated based on initial score.
A 100% identical sequence to the query sequence was found:

Sequence Name Description Init. Opt. Length Score Score Sig. Frame

1. US-08-937-263B-4 Sequence 4, Application U 11 11 1.32 0
A 100% similar sequence to the query sequence was found:

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
2. US-08-937-263B-8 Sequence 8, Application U 180 11 1.32 0

The list of other best scores is:

Sequence Name Description Length Score Score Init. Opt. Sig. Frame
3. US-08-937-263B-5 Sequence 5, Application U 9 9 0.44 0
4. US-08-937-263B-6 Sequence 6, Application U 9 7 -0.44 0
5. US-08-937-263B-7 Sequence 7, Application U 6 6 -0.88 0

1. US-10-023-182-4 (1-11)
US-08-937-263B-4 Sequence 4, Application US/08937263B

Sequence 4, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Taeng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Dillynout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Simm, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 11 Optimized Score = 11 Significance = 1.32
Residue Identity = 100% Matches = 11 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X
SLMMWTCQFL
|||||
SLMMWTCQFL
X
10

2. US-10-023-182-4 (1-11)

US-08-937-263B-8 Sequence 8, Application US/08937263B

Sequence 8, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Sinn, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 180

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 11 Optimized Score = 11 Significance = 1.32
Residue Identity = 100% Matches = 11 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

GGGATGPGHGAAGGCGCGAGGPGESRLLEFLAMPFAIPMEAEIARRSLAODAPPLVPVGVLLKEFTV
60 70 80 90 100 110 120

SGNLLTIRLTADHRQLQSLSSCIQQLSLIMWITQCFLPVLAPPSGQR
130 140 150 160 170 180

3. US-10-023-182-4 (1-11)

US-08-937-263B-5 Sequence 5, Application US/08937263B

Sequence 5, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Sinn, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.44
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X 10
SLIMWITQCFL
|||||||
SLIMWITQC
X

4. US-10-023-182-4 (1-11)

US-08-937-263B-6 Sequence 6, Application US/08937263B

Sequence 6, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

|||||
LIMIT
X
X

NAME: Simm, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear

Initial Score = 7 Optimized Score = 7 Significance = -0.44
Residue Identity = 100% Matches = 7 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X X 10
SLMMWITQCFLL
|||||
QLSLMMWIT
X X

5. US-10-023-182-4 (1-11)
US-08-937-263B-7 Sequence 7, Application US/08937263B

Sequence 7, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tsang; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd U.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifhout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 Kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

ATTORNEY/AGENT INFORMATION:

NAME: Simm, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

TELECOMMUNICATION INFORMATION:

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 6 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 6 Optimized Score = 6 Significance = -0.88
Residue Identity = 100% Matches = 6 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X X 10
SLMMWITQCFLL

> O <
O / O IntelliGenetics
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 10-023182-4b.res made by jdelaval on Wed 11 Feb 104 7:18:39-PSR.

Query sequence being compared: US-10-023-182-4 (1-11)
Number of sequences searched: 5
Number of scores above cutoff: 5

Results of the initial comparison of US-10-023-182-4 (1-11) with:
File: 6525177.pep

```

100-
N -
U -
M -
B -
E -
R -
O -
F 10-
S -
E 5-
Q -
U -
E -
N -
C -
S -
SCORE 0 | 1 | 2 | 4 | 5 | 6 | 7 | 9 | 10 | 11 |
STDDEV -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

```

PARAMETERS

Similarity matrix Unitary K-tuple 2
Mismatch penalty 1 Joining penalty 20
Gap penalty 1.00 Window size 9
Gap size penalty 0.05
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 8 Median 8 Standard Deviation 2.28
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00
Number of residues: 215
Number of sequences searched: 5
Number of scores above cutoff: 5

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Length	Init. Opt.	Score	Sig. Frame
X	SLMMWITQCF	11	11	1.32	0

1. US-09-751-798-4 Sequence 4, Application US 11 11 1.32 0
A 100% similar sequence to the query sequence was found:

Sequence Name	Description	Length	Init. Opt.	Score	Sig. Frame
2. US-09-751-798-8 Sequence 8, Application US		180	11	1.32	0

The list of other best scores is:

Sequence Name	Description	Length	Init. Opt.	Score	Sig. Frame
3. US-09-751-798-5 Sequence 5, Application US		9	9	0.44	0
4. US-09-751-798-6 Sequence 6, Application US		9	7	-0.44	0
5. US-09-751-798-7 Sequence 7, Application US		6	6	-0.88	0

1. US-10-023-182-4 (1-11)
US-09-751-798-4 Sequence 4, Application US/09751798

Sequence 4, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 11 Optimized Score = 11 Significance = 1.32
Residue Identity = 100% Matches = 11 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X X
SLMMWITQCF

|||||
SLMWITQCFL
X
10

2. US-10-023-182-4 (1-11)
US-09-751-798-8 Sequence 8, Application US/09751798

Sequence 8, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 180

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 11 Optimized Score = 11 Significance = 1.32
Residue Identity = 100% Matches = 11 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

GGAGRGPHGGAAGLNGCCGARGPSRLLEFLAMPATPMEALARSLSLAQDAPLPVPGVLIKEFTV
60 70 80 90 100 110 120

X
SLMWITQCFL
X
SGNITITLTAADHRQLQISISCCLOQLSLMWITQCFLPVFTLAQPPSGGQR
130 140 150 160 170 180

3. US-10-023-182-4 (1-11)
US-09-751-798-5 Sequence 5, Application US/09751798

Sequence 5, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.44
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X
SLMWITQCFL
X
SLMWITQC
X

4. US-10-023-182-4 (1-11)
US-09-751-798-6 Sequence 6, Application US/09751798

Sequence 6, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA

ZIP: 10103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
 COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: WordPerfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/751,798
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/062,422
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/725,182
 FILING DATE: October 3, 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 6525177man D.
 REGISTRATION NUMBER: 30,946
 REFERENCE/DOCKET NUMBER: LUD 5466.3
 TELEPHONE: (212) 318-3168
 TELEFAX: (212) 752-5958
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

Initial Score = 7 Optimized Score = 7 Significance = -0.44
 Residue Identity = 100% Matches = 7 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

X X 10
 SLWMITQCFLL
 |||||
 QLSLMTIT
 X X

5. US-10-023-182-4 (1-11)
 US-09-751-798-7 Sequence 7, Application US/09751798

Sequence 7, Application US/09751798
 Patent No. 6525177
 GENERAL INFORMATION:
 APPLICANT: Stockert, Elisabeth; Jager, Elke;
 APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
 APPLICANT: Knuth, Alexander; Old, Lloyd J.
 TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
 TITLE OF INVENTION: Associated Proteins, Uses Thereof,
 TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
 TITLE OF INVENTION: Binding Peptides Derived Therefrom
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESSES:
 ADDRESSEE: Fulbright & Jaworski, L.L.P.
 STREET: 666 Fifth Avenue
 CITY: New York City
 STATE: New York
 COUNTRY: USA
 ZIP: 10103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
 COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: WordPerfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/751,798
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/062,422
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 6525177man D.
 REGISTRATION NUMBER: 30,946
 REFERENCE/DOCKET NUMBER: LUD 5466.3
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 318-3168
 TELEFAX: (212) 752-5958
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 6amino acids
 TYPE: amino acid
 TOPOLOGY: linear

Initial Score = 6 Optimized Score = 6 Significance = -0.88
 Residue Identity = 100% Matches = 6 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

X X 10
 SLWMITQCFLL
 |||||
 LLMWIT
 X X

2. US-10-023-182-5 (1-9)
US-08-937-263B-8 Sequence 8, Application US/08937263B

Sequence 8, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:
NAME: Sim, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:
LENGTH: 180

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.71
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

GGGAPRPHGGAAGGCGCGARGPESRLLEFYLMFPATPMENELARSLAODAPPLVPVGVLLKEFTV
60 70 80 90 100 110 120

X
SLMWTTC
|||||
SLMWTTCFL

SGNLTIRLTADHRLQLSISCLQLSLMWTTCFLPVFLAAPPSCQR
130 140 150 160 170 180

3. US-10-023-182-5 (1-9)
US-08-937-263B-4 Sequence 4, Application US/08937263B

Sequence 4, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:
NAME: Sim, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.71
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X
SLMWTTC
|||||
SLMWTTCFL
X
10

4. US-10-023-182-5 (1-9)
US-08-937-263B-6 Sequence 6, Application US/08937263B

Sequence 6, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifflout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA

ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Simn, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear

Initial Score = 7 Optimized Score = 7 Significance = -0.71
Residue Identity = 100% Matches = 7 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X
SLMWITQC
|||||
QLSLMWIT
X
X

5. US-10-023-182-5 (1-9)
US-08-937-263B-7 Sequence 7, Application US/08937263B

Sequence 7, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng, Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drijfhout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Simn, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 6amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 6 Optimized Score = 6 Significance = -1.41
Residue Identity = 100% Matches = 6 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X
X

SLMWITQC
|||||
LSLMWIT
X
X

> O <
O| | O Intelligence
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 10-023182-5b.res made by jdelaval on Wed 11 Feb 104 7:19:26-PST.

Query sequence being compared: US-10-023-182-5 (1-9)
Number of sequences searched: 5
Number of scores above cutoff: 5

Results of the initial comparison of US-10-023-182-5 (1-9) with:
File : 6525177.pap

100-
N -
U - 50-
M -
B -
E -
R -
O -
F - 10-
S -
S - 5-
Q -
U -
E -
N -
C -
E -
S -
0
SCORE 0
STDDEV -5
1
-4
2
3
-3
4
-2
5
-1
6
7
0
8
9

PARAMETERS

Similarity matrix Unitary 2
Mismatch penalty 1 Joining penalty 20
Gap penalty 1.00 Window size 9
Gap size penalty 0.05
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 8 Median 8 Standard Deviation 1.41
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00

Number of residues: 215
Number of sequences searched: 5
Number of scores above cutoff: 5

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Init. Opt.	Length Score	Score	Sig. Frame
---------------	-------------	------------	--------------	-------	------------

1. US-09-751-798-5 Sequence 5, Application US 9 9 0.71 0
2 100% similar sequences to the query sequence were found:

Sequence Name	Description	Length	Score	Score	Sig. Frame
2. US-09-751-798-8 Sequence 8, Application US		180	9	9	0.71 0
3. US-09-751-798-4 Sequence 4, Application US		11	9	9	0.71 0

The list of other best scores is:

Sequence Name	Description	Length	Score	Score	Sig. Frame
4. US-09-751-798-6 Sequence 6, Application US		9	7	7	-0.71 0
5. US-09-751-798-7 Sequence 7, Application US		6	6	6	-1.41 0

1. US-10-023-182-5 (1-9)
US-09-751-798-5 Sequence 5, Application US/09751798

Sequence 5, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESSES:
ADDRESS: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM
OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798

FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422

FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5466.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168
TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.71
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X X

SLMWITQC
|||||
SLMWITQC
X

2. US-10-023-182-5 (1-9)

US-09-751-798-8 Sequence 8, Application US/09751798

Sequence 8, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 180

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.71
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

GGAGRGHGGAGSLNCCRCGARGPSRLIEFYLANPFAIPWEALARSIAQADAPPLFVPGVLLKEFTV
60 70 80 90 100 110 120
X X
SLMWITQC X
|||||
SLMWITQC X
X
SCNITITRTADHRQLQSLSCICQSLMWITQCLPVPYLAQPPSGGR
130 140 150 160 170 180

3. US-10-023-182-5 (1-9)

US-09-751-798-4 Sequence 4, Application US/09751798

Sequence 4, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 11 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 0.71
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X X
SLMWITQC X
|||||
SLMWITQCL X
SLMWITQCL 10

4. US-10-023-182-5 (1-9)

US-09-751-798-6 Sequence 6, Application US/09751798

Sequence 6, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York

COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 7
Residue Identity = 100%
Gaps = 0

Optimized Score = 7
Matches = 7
Mismatched = 0

Significance = -0.71
Conservative Substitutions = 0

Sequence 7, Application US/09751798
Patent No. 6525177

GENERAL INFORMATION:
APPLICANT: Stockert, Elisabeth; Jager, Elke;

APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;

APPLICANT: Knuth, Alexander; Old, Lloyd J.

TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer

TITLE OF INVENTION: Associated Proteins, Uses Thereof,

TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA

TITLE OF INVENTION: Binding Peptides Derived Therefrom

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESS: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422
FILING DATE:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
LENGTH: 6amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 6
Residue Identity = 100%
Gaps = 0

Optimized Score = 6
Matches = 6
Mismatched = 0

Significance = -1.41
Conservative Substitutions = 0

Sequence 7, Application US/09751798

Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;

APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;

APPLICANT: Knuth, Alexander; Old, Lloyd J.

TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer

TITLE OF INVENTION: Associated Proteins, Uses Thereof,

TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA

TITLE OF INVENTION: Binding Peptides Derived Therefrom

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESS: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/062,422
FILING DATE:
PRIOR APPLICATION DATA:

> O <
O | / O Intelligenetics
> O <

FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file us-10-023-182-6.res made by jdelaval on Wed 11 Feb 104 7:17:47-PST.

Query sequence being compared: US-10-023-182-6 (1-9)
Number of sequences searched: 5
Number of scores above cutoff: 5

Results of the initial comparison of US-10-023-182-6 (1-9) with:
File: 6274145.pep

100-
N -
U - 50-
M -
B -
E -
R -
C -
O - 10-
F -
S -
S - 5-
O -
U -
E -
N -
C -
S -
S - 0-
SCORE 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
STDDEV -4 | -3 | -2 | -1 | 0 | 1 | 2 | 3 | 4 | 5 |

PARAMETERS

Similarity matrix Unitary 2
Mismatch penalty 1 Joining penalty 20
Gap penalty 1.00 Window size 9
Gap size penalty 0.05
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 7 Median 8 Standard Deviation 1.34
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00

Number of residues: 215
Number of sequences searched: 5
Number of scores above cutoff: 5

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Init. Opt.	Length	Score	Sig.	Frame
---------------	-------------	------------	--------	-------	------	-------

1. US-08-937-263B-6 Sequence 6, Application U 9 9 1.49 0
A 100% similar sequence to the query sequence was found:

Sequence Name	Description	Length	Score	Init. Opt.	Sig.	Frame
---------------	-------------	--------	-------	------------	------	-------

2. US-08-937-263B-8 Sequence 8, Application U 180 9 9 1.49 0

The list of other best scores is:

Sequence Name	Description	Length	Score	Init. Opt.	Sig.	Frame
---------------	-------------	--------	-------	------------	------	-------

3.	US-08-937-263B-5 Sequence 5, Application U	9	7	7	0.00	0
4.	US-08-937-263B-4 Sequence 4, Application U	11	7	7	0.00	0
5.	US-08-937-263B-7 Sequence 7, Application U	6	6	6	-0.75	0

1. US-10-023-182-6 (1-9)
US-08-937-263B-6 Sequence 6, Application US/08937263B

Sequence 6, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tsang; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth, Delfhout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSER: Pulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA

ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 Kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

Prior APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Sim, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9 Optimized Score = 9 Significance = 1.49
Residue Identity = 100% Matches = 9 Mismatches = 0
Gaps = 0 Conservative Substitutions = 0

X	X
QSLMMWIT	QSLMMWIT
QSLMMWIT	QSLMMWIT
X	X

2. US-10-023-182-6 (1-9)
US-08-937-263B-8 Sequence 8, Application US/08937263B

Sequence 8, Application US/08937263B
Patent No. 6274145

GENERAL INFORMATION:
APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;
APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Drifhout, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B
FILING DATE: September 15, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Simn, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:

Initial Score	=	9	Optimized Score	=	9	Significance	=	1.43
Residue Identity	=	100%	Matches	=	9	Mismatches	=	0
Gaps	=	0	Conservative Substitutions	=	0			

```

GPGGCAGRPGHGGAGSLNCCCGAGPESRLLLEFLFLAMPFATPEALRLARSLODAPPLPVGVGLLKEF
60      70      80      90      100      110      120
          X      X
          QSLLMWIT
TVSGNLTITRLTADRHQLOLSISSCQQCSLLMWITQCFLPVFLAQPSSGGR
130      140      150      160      170      180

```

3. US-10-023-182-6 (1-9)
US-08-927-263B-5 Sequence 5, Application US/08937263B
Sequence 5, Application US/08937263B
Patent No. 6,274,145

GENERAL INFORMATION:
 APPLICANT: Chen, Yao-Tsung; Scanlan, Matthew; Elke,
 Applicant: Gure, Ali; Old, Lloyd J.; Jager, Elke;
 Applicant: Alexander, Knuth; Drijfhout, Jan W.
 TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
 TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
 TITLE OF INVENTION: ITSELF, AND USES THEREOF
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: us/08/937.263B
FILING DATE: September 15, 1997
PRIOR APPLICATION DATA: 09/07/95 102

APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Shim, Eric, Patent Agent
REGISTRATION NUMBER: 40,177
REFERENCE/DOCKET NUMBER: LUD 5466.1.1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3000
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ. ID NO.: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear

```

X      X
TSDPLMWT
|||||
SLMMITOC
X      X

al score = 7
Sequence Identity = 100%
Optimized Score = 7
Matches = 7
Conservative Substitutions = 7

Significance = 0.00
Mismatch = 0
Mismatches = 0
```

4. US-10-023-182-6 (1-9)
US-08-937-263B-4 Sequence 4, Application US/08937263B

Sequence 4, Application US/08937263B
Patent No. 6274145

APPLICANT: Chen, Yao-Tsensy; Sautan, Matthew;
APPLICANT: Gure, Ali, Old, Lloyd J.; Jager, Elke;
APPLICANT: Alexander, Knuth; Dirlhoub, Jan W.
TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE
TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN
TITLE OF INVENTION: ITSELF, AND USES THEREOF
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:

ADDRESSER: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

OPERATING SYSTEM: PC-DOS
SOFTWARE: WordPerfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/937,263B
FILING DATE: September 15, 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:

NAME: Sim, Eric, Patent Agent
 REGISTRATION NUMBER: 40,177
 REFERENCE/DOCKET NUMBER: LUD 5466.1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 318-3000
 TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 11 amino acids
 TYPE: amino acid
 TOPOLOGY: linear

Initial Score = 7 Optimized Score = 7 Significance = 0.00
 Residue Identity = 100% Matches = 7 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

X
 QLSLWMIT
 |||||
 SLWMITQCEFL
 X X 10

|||||
 LLMWIT
 X X

5. US-10-023-182-6 (1-9)
 US-08-937-263B-7 Sequence 7, Application US/08937263B

Sequence 7, Application US/08937263B

Patent No. 6274145

GENERAL INFORMATION:

APPLICANT: Chen, Yao-Tseng; Scanlan, Matthew;

APPLICANT: Gure, Ali; Old, Lloyd J.; Jager, Elke;

APPLICANT: Alexander, Knuth; Driffhout, Jan W.

TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE

TITLE OF INVENTION: ENCODING CANCER ASSOCIATED ANTIGEN, THE ANTIGEN

TITLE OF INVENTION: ITSELF, AND USES THEREOF

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA

ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/937,263B

FILING DATE: September 15, 1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Sim, Eric, Patent Agent

REGISTRATION NUMBER: 40,177

REFERENCE/DOCKET NUMBER: LUD 5466.1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 318-3000

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 6amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 6 Optimized Score = 6 Significance = -0.75
 Residue Identity = 100% Matches = 6 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

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FastDB - Fast Pairwise Comparison of Sequences
Release 5.4

Results file 10-023182-6b.res made by jdelaval on Wed 11 Feb 104 7:19:52-PSY.

Query sequence being compared: US-10-023-182-6 (1-9)
Number of sequences searched: 5
Number of scores above cutoff: 5

Results of the initial comparison of US-10-023-182-6 (1-9) with:
File : 6525177.pep

100-
N -
U -
M -
B -
E -
R -
O -
P -
S -
S -
E -
U -
O -
U -
E -
N -
C -
S -
E -
S
SCORE 0 1 2 3 4 5 6 7 8 9
STDEV -4 1 -3 -2 -1 0 1 1 1

PARAMETERS

Similarity matrix Unitary 1 K-tuple 2
Mismatch penalty 1 Joining penalty 20
Gap penalty 1.00 Window size 9
Gap size penalty 0.05
Cutoff score 0
Randomization group 0

SEARCH STATISTICS

Scores: Mean 7 Median 8 Standard Deviation 1.34
Times: CPU 00:00:00.00 Total Elapsed 00:00:00.00
Number of residues: 215
Number of sequences searched: 5
Number of scores above cutoff: 5

The scores below are sorted by initial score.
Significance is calculated based on initial score.

A 100% identical sequence to the query sequence was found:

Sequence Name	Description	Init. Opt.	Length Score	Score	Sig. Frame
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1. US-09-751-798-6 Sequence 6, Application US 9 9 9 1.49 0
A 100% similar sequence to the query sequence was found:

Sequence Name	Description	Length	Score	Init. Opt.	Sig. Frame
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The list of other best scores is:

Sequence Name	Description	Length	Score	Init. Opt.	Sig. Frame
3. US-09-751-798-5 Sequence 5, Application US		9	7	7	0.00 0
4. US-09-751-798-4 Sequence 4, Application US		11	7	7	0.00 0
5. US-09-751-798-7 Sequence 7, Application US		6	6	6	-0.75 0

1. US-10-023-182-6 (1-9)
US-09-751-798-6 Sequence 6, Application US/09751798

Sequence 6, Application US/09751798

Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
APPLICANT: Chen, Yao-tseng; Scallan, Matthew;
APPLICANT: Knuth, Alexander; Old, Lloyd J.
TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer
TITLE OF INVENTION: Associated Proteins, Uses Thereof,
TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
TITLE OF INVENTION: Binding Peptides Derived Therefrom
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski, L.L.P.
STREET: 666 Fifth Avenue
CITY: New York City
STATE: New York
COUNTRY: USA
ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/751,798
FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422
FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182
FILING DATE: October 3, 1996
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 6525177man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: LUD 5466.3
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 318-3168
TELEFAX: (212) 752-5958
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 amino acids
TYPE: amino acid
TOPOLOGY: linear

Initial Score = 9
Residue Identity = 100%
Gaps = 0

Optimized Score = 9
Matches = 9
Significance = 1.49
Conservative Substitutions = 0
Mismatches = 0

Sequence Name X
Description X
Length Score X
Score X
Sig. Frame X
QSLMLWIT

|||||
 QLSLMWIT
 X
 X

2. US-10-023-182-6 (1-9)
 US-09-751-798-8 Sequence 8, Application US/09751798

Sequence 8, Application US/09751798
 Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;
 APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
 APPLICANT: Knuth, Alexander; Old, Lloyd J.
 TITLE OF INVENTION: Antibodies which bind to NY-ESO-1 Cancer
 TITLE OF INVENTION: Associated Proteins, Uses Thereof,
 TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
 TITLE OF INVENTION: Binding Peptides Derived Therefrom
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fulbright & Jaworski, L.L.P.
 STREET: 666 Fifth Avenue
 CITY: New York City
 STATE: New York
 COUNTRY: USA
 ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER:

IBM

OPERATING SYSTEM:

PC-DOS

SOFTWARE:

WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE:

OCTOBER 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 752-5958

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 8:

SEQUENCE CHARACTERISTICS:

LENGTH: 180

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 9

Residue Identity = 100% Matches = 9

Gaps = 0

Optimized Score = 1.49

Significance = 0

Mismatches = 0

Conservative Substitutions = 0

Sequence 5, Application US/09751798

Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;

APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;

APPLICANT: Knuth, Alexander; Old, Lloyd J.

TITLE OF INVENTION: Antibodies which bind to NY-ESO-1 Cancer

TITLE OF INVENTION: Associated Proteins, Uses Thereof,

TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA

TITLE OF INVENTION: Binding Peptides Derived Therefrom

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA

APPLICANT: Stockert, Elisabeth; Jager, Elke;
 APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;
 APPLICANT: Knuth, Alexander; Old, Lloyd J.
 TITLE OF INVENTION: Antibodies which bind to NY-ESO-1 Cancer
 TITLE OF INVENTION: Associated Proteins, Uses Thereof,
 TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA
 TITLE OF INVENTION: Binding Peptides Derived Therefrom
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Fulbright & Jaworski, L.L.P.
 STREET: 666 Fifth Avenue
 CITY: New York City
 STATE: New York
 COUNTRY: USA
 ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6525177man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5466.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 752-5958

TELEFAX: (212) 752-5958

INFORMATION FOR SEQ ID NO: 5:

SEQUENCE CHARACTERISTICS:

LENGTH: 9 amino acids

TYPE: amino acid

TOPOLOGY: linear

Initial Score = 7

Residue Identity = 100% Matches = 7

Gaps = 0

Optimized Score = 0.00

Significance = 0

Mismatches = 0

Conservative Substitutions = 0

Sequence 4, Application US/09751798

Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;

APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;

APPLICANT: Knuth, Alexander; Old, Lloyd J.

TITLE OF INVENTION: Antibodies which bind to NY-ESO-1 Cancer

TITLE OF INVENTION: Associated Proteins, Uses Thereof,

TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA

TITLE OF INVENTION: Binding Peptides Derived Therefrom

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA

ZIP: 10103
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage
 COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: WordPerfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/751,798
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/062,422
 FILING DATE:
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/725,182
 FILING DATE: October 3, 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 6525177man D.
 REGISTRATION NUMBER: 30,946
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 318-3168
 TELEFAX: (212) 752-5958
 INFORMATION FOR SEQ. ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 11 amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 Initial Score = 7 Optimized Score = 7 Significance = 0.00
 Residue Identity = 100% Matches = 7 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

X
 QLSLWMIT
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 X X 10

5. US-10-023-182-6 (1-9)
 US-09-751-798-7 Sequence 7, Application US/09751798

Sequence 7, Application US/09751798

Patent No. 6525177

GENERAL INFORMATION:

APPLICANT: Stockert, Elisabeth; Jager, Elke;

APPLICANT: Chen, Yao-tseng; Scanlan, Matthew;

APPLICANT: Knuth, Alexander; Old, Lloyd J.

TITLE OF INVENTION: Antibodies Which Bind to NY-ESO-1 Cancer

TITLE OF INVENTION: Associated Proteins, Uses Thereof,

TITLE OF INVENTION: Truncated Forms of NY-ESO-1, and HLA

TITLE OF INVENTION: Binding Peptides Derived Therefrom

NUMBER OF SEQUENCES: 8

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski, L.L.P.

STREET: 666 Fifth Avenue

CITY: New York City

STATE: New York

COUNTRY: USA

ZIP: 10103

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.5 inch, 144 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: WordPerfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/751,798

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/062,422

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/725,182

FILING DATE: October 3, 1996
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 6525177man D.
 REGISTRATION NUMBER: 30,946
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 318-3168
 TELEFAX: (212) 752-5958
 INFORMATION FOR SEQ. ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 6amino acids
 TYPE: amino acid
 TOPOLOGY: linear
 Initial Score = 6 Optimized Score = 6 Significance = -0.75
 Residue Identity = 100% Matches = 6 Mismatches = 0
 Gaps = 0 Conservative Substitutions = 0

X
 QLSLWMIT
 |||||
 LLMWIT
 X X

Sequence Name	Description	Length	Init. Score	Opt. Score	Sig.	Frame

80 90 100 110 120 130 140
 GCA CAG GGG GTT GCA GGG CGA TGC GGC CCG AGG CCG CCG CAT TGC
 GCA CAG GGG GTT GCA GGG CGA TGC GGC CCG AGG CCG CCG CAT TGC
 GCA CAG GGG GTT GCA GGG CGA TGC GGC CCG AGG CCG CCG CAT TGC
 80 90 100 110 120 130 140
 GCA CAG GGG GTT GCA GGG CGA TGC GGC CCG AGG CCG CCG CAT TGC